

Note:	Make a copy of this sheet in your account to use the status tracking feature		
(We Will use C programming to build logic because it doesn't have any predefined libraries)			
C Programming			
Installing C Compiler in VS Code	YouTube	To Do	
C Programming Crash Course	YouTube	To Do	
Pattern Printing			
<u>Topic</u>	<u>Link</u>	<u>Status</u>	<u>Remarks / Notes</u>
Star Pattern 1	YouTube	To Do	
Star Pattern 2	YouTube	To Do	
Number Pattern 1	YouTube	To Do	
Star Pattern 3	YouTube	To Do	
Number Pattern 2	YouTube	To Do	
Number Pattern 3	YouTube	To Do	
Star Pattern 4	YouTube	To Do	
Star Pattern 5	YouTube	To Do	
Star Pattern 6	YouTube	To Do	
Star Pattern 7	YouTube	To Do	
Star Pattern 8	YouTube	To Do	
Alphabet Pattern 1	YouTube	To Do	
Alphabet Pattern 2	YouTube	To Do	
Alphabet Pattern 3	YouTube	To Do	
Solve Any Pattern with this trick	YouTube	To Do	
Patterns Revision for Interviews	GFG	To Do	
Problems on Maths			
Easy Problems			
Check Even or Odd	Link	To Do	
Swap Two Numbers	Link	To Do	
Dice Problem	Link	To Do	
Sum of Digits	Link	To Do	
Reverse Digits	Link	To Do	
Prime Testing	Link	To Do	
Medium Problems			
GCD or HCF	Link	To Do	
LCM of Two Numbers	Link	To Do	
Distance between Two Points	Link	To Do	
Factorial of a Number	Link	To Do	
Perfect Number	Link	To Do	
Add Two Fraction	Link	To Do	
Nth Fibonacci Number	Link	To Do	
Decimal to Binary	Link	To Do	
Armstrong Number	Link	To Do	
Palindrome Number	Link	To Do	
Digit Root	Link	To Do	

<u>Hard Problems</u>			
Square Root	Link	To Do	
Divisibility by 13	Link	To Do	
Compute nPr	Link	To Do	
Compute nCr	Link	To Do	
Pascal's Triangle	Link	To Do	
Prime Factorization	Link	To Do	
Power Set	Link	To Do	
Next Permutation	Link	To Do	

Complexity				
Topic	Link	Status	Remarks / Notes	
Time & Space Complexity	YouTube	To Do		
Big O - Cheatsheet	W3Schools	To Do		
Recursion				
Topic	Problem	Solution	Status	Remark / Notes
What is Recursion	-	YouTube	To Do	
Recursion Crash Course	-	YouTube	To Do	
Writing Base Case in Recursion	-	YouTube	To Do	
Print 1 to N using recursion	GFG	YouTube	To Do	
Print N to 1 using recursion	GFG	YouTube	To Do	
Sum of first N numbers	GFG	YouTube	To Do	
Factorial of N number	GFG	YouTube	To Do	
Check if string is pallindrome	Leetcode	YouTube	To Do	
Fibonacci Number	Leetcode	YouTube	To Do	
Sorting Algo's				
Selection Sort	GFG	YouTube	To Do	
Bubble Sort	GFG	YouTube	To Do	
Insertion Sort	GFG	YouTube	To Do	
Merge Sort	GFG	YouTube	To Do	
Quick Sort	GFG	YouTube	To Do	
Hashing Algo				
Hashing Theory	-	YouTube		
Counting Frequency	GFG	YouTube		
Searching Algo's				
Linear Search	GFG	YouTube	To Do	
Binary Search	GFG	YouTube	To Do	

Logical Puzzles			
Topic	Problem	Status	Remarks / Notes
Pay an employee using a gold rod of 7 units ?	Link	To Do	
Find the fastest 3 horses	Link	To Do	
Finding the injection for Anesthesia	Link	To Do	
3 Bulbs and 3 Switches	Link	To Do	
Camel and Banana Puzzle	Link	To Do	
Find the Jar with contaminated pills	Link	To Do	
100 Prisoners with Red/Black Hats	Link	To Do	
10 Coins Puzzle	Link	To Do	
Strategy for a 2-Player Coin Game	Link	To Do	
5 Pirates and 100 Gold Coins	Link	To Do	
Minimum cut Puzzle	Link	To Do	
Prisoner and Policeman Puzzle	Link	To Do	
Puzzle - Cheating Husband	Link	To Do	
Puzzle – Blind Games	Link	To Do	
Puzzle – Chameleons go on a date	Link	To Do	
Heaven and Hell	Link	To Do	
Mislabeled Jars	Link	To Do	
8 balls problem	Link	To Do	
Cheryl's Birthday Puzzle and Solution	Link	To Do	
Puzzle – The Lion and the Unicorn	Link	To Do	
Farmer, Goat, Wolf, and Cabbage	Link	To Do	
Water Jug Problem	Link	To Do	
Blind man and Pills	Link	To Do	
The Burning Candles	Link	To Do	
Puzzle The Burning Candles	Link	To Do	
Rat and Poisonous Milk Bottles	Link	To Do	
Measuring 6L water from 4L and 9L buckets	Link	To Do	
Six Houses P, Q, R, S, T, and U	Link	To Do	
Melting Candles	Link	To Do	
Red Hat vs Blue Hat	Link	To Do	
Puzzle Joint family of seven persons (L, M, N,	Link	To Do	
Puzzle The Circle of Lights	Link	To Do	
Puzzle 9 Students and Red Black Hats	Link	To Do	
Light all the bulbs	Link	To Do	
Distribute the Water	Link	To Do	
Puzzle Can 2 persons be with same number o	Link	To Do	
Weight of Heavy Ball	Link	To Do	
Mathematical Puzzles			
Find ages of daughters	Link	To Do	
Calculate total distance travelled by bee	Link	To Do	
Puzzle – 6×6 Grid: How Many Ways?	Link	To Do	
Monty Hall problem	Link	To Do	
Torch and Bridge	Link	To Do	
2 Eggs and 100 Floors	Link	To Do	
Maximize the probability of White Ball	Link	To Do	
Poison and Rat	Link	To Do	
Hourglasses Puzzle	Link	To Do	
The ratio of Boys and Girls in a Country where	Link	To Do	
Car Wheel Puzzle	Link	To Do	
Maximum Chocolates	Link	To Do	
Puzzle Splitting a Cake with a Missing Piece ir	Link	To Do	
Rs 500 Note Puzzle	Link	To Do	
Girl or Boy	Link	To Do	
Know Average Salary without Disclosing Individ	Link	To Do	
Maximum run in cricket	Link	To Do	
Completion of Task	Link	To Do	
Find missing Row in Excel	Link	To Do	
Four People on a Rickety Bridge	Link	To Do	
Man fell in well Puzzle	Link	To Do	

50 red marbles and 50 blue marbles	Link	To Do
Puzzle Form Three Equilateral Triangles	Link	To Do
10 identical bottles of pills	Link	To Do
Puzzle Maximum pieces that can be cut from a Circle	Link	To Do
Chain Link Puzzle	Link	To Do
The shopkeeper and the lady who made a purchase	Link	To Do
Egg Dropping Puzzle with 2 Eggs and K Floors	Link	To Do
Minimum number of Apples to be collected from a Tree	Link	To Do
Snail and Wall	Link	To Do
1000 light bulbs switched on/off by 1000 people	Link	To Do
Puzzle Four Alternating Knights	Link	To Do
TCS DIGITAL PUZZLE Lateral Thinking 2	Link	To Do
Puzzle 100 Cows And Milk	Link	To Do
Puzzle One Mile on the Globe	Link	To Do
TCS DIGITAL PUZZLE Lateral Thinking	Link	To Do
Puzzle The Counters and Board	Link	To Do
Camel and Banana Puzzle	Link	To Do
Puzzle (Six Matches , Right Foot Forward)	Link	To Do
How much he had initially?	Link	To Do
Puzzle 3 cuts to cut round cake into 8 equal pieces	Link	To Do
Two Creepers Climbing a Tree	Link	To Do

Arrangement Puzzles

10 Coins Puzzle	Link	To Do
Days of the month using 2 dice	Link	To Do
Tic Tac Toe Puzzle	Link	To Do
Matchstick Puzzle	Link	To Do
Last Palindrome Date Before 10/02/2001	Link	To Do
10 identical bottles of pills	Link	To Do
10 Balls in 5 Lines	Link	To Do
Round table coin game	Link	To Do
Puzzle The Circle of Lights	Link	To Do

Shape Puzzles

3 cuts to cut the round cake into 8 equal pieces	Link	To Do
Chessboard and dominos	Link	To Do
Maximum pieces that can be cut from a Circle	Link	To Do
Splitting a Cake with a Missing Piece in two equal parts	Link	To Do
3 Ants and Triangle	Link	To Do

Miscellaneous

How to Measure 45 minutes using two identical	Link	To Do
Elevator Puzzle	Link	To Do
Find the last ball to remain after the entire process	Link	To Do
100 people in a circle with a gun puzzle	Link	To Do
Find the total guests that are present at the party	Link	To Do